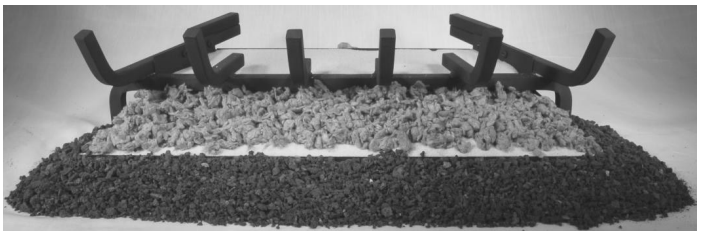
INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL



CONGRATULATIONS on the purchase of your new DECORATIVE GAS BURNER! Your Decorative Gas Burner is designed and intended for installation in an approved, existing, fully vented, wood-burning fireplace, with a gas hook-up. **Match Throw units must be fueled by Natural Gas only.** Gas Control Valve units may be fueled by either Natural or Liquid Propane (LP) gas. Liquid Propane units must use an LP change kit.

WARNING: If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **WHAT TO DO IF YOU SMELL GAS**
  - **Do not try to light any appliance.**
  - **Do not touch any electrical switch; do not use any phone in your building.**
  - **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
  - **If you cannot reach your gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

Carton Contents:
1 - Fiamma Series Burner Pan (NG match throw)
1 - Bag Sand
1 - Bag Glowing Embers
1 - Bag - Lava Rock (Cinders)
1 - Damper Clamp
1 - Stainless Steel Flex Gas Line with adapter

FIAMMA SERIES DECORATIVE BURNER

(REQUIRES VENTED DECORATIVE LOG SET)

FOR INSTALLATION IN SOLID-FUEL BURNING FIREPLACES

MODELS
BX18MTN-1
BX24MTN-1
BX30MTN-1
BX36MTN-1

WARNING: This log set is to be installed only in a solid-fuel burning fireplace with a working flue constructed of non-combustible material. The vent damper must also have a damper clamp attached to it to keep the damper from accidentally closing during operation.

WARNING: If not installed, operated and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel or from fuel combustion which can cause death or serious illness.

WARNING: This appliance must be installed only in a solid-fuel burning fireplace with a working flue and construction of noncombustible materials. This unit is NOT for use with solid fuel. Solid fuels shall NOT be burned in a fireplace where a decorative appliance is installed.

General Information: These instructions are intended as a general guide and do not supersede national or local codes in any way. Authorities having jurisdiction should be consulted before installation. Installation and provision for combustion and ventilation air must conform to the *National Fuel Gas Code, ANSI Z223.1, or CAN/CGA-B149.1, Natural Gas Installation Code, or CAN/CGA-B149.2, Propane Installation Code.*

IMPORTANT! Read these instructions carefully before installing or operating this gas appliance. These instructions should be left with the homeowner for future reference.

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IMPORTANT SAFETY INFORMATION

Installer: Please leave these instructions with the owner for future reference.

For Installation In Solid Fuel Burning Fireplaces. Do not burn wood or solid fuels in a fireplace where a decorative gas log set is installed. This appliance is for installation only in a solid fuel burning fireplace, masonry fireplace or manufactured fireplace.

WARNING: Any modification to this gas log set or to controls can be dangerous. Improper installation or use of the gas log set can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.

1. Please follow all local codes regarding installation, combustion and ventilation air or in the absence of local codes follow the National Fuel Gas Code ANSI Z223.1(U.S. installation), or CAN/CGA-B149, Installation Code (Canada installation).
2. Proper installation, burner pan location and log placement is important to achieve optimum look and performance of your gas log set. The logs have been designed for easy location and placement on the grate and must be followed for proper operation.
3. Do not operate this log set with glass doors in the closed position. A fireplace screen must be in place when the log set is burning. Adequate combustion air must be provided for proper venting. All flames should go up and out the top of the firebox into the flue vent. If any flames float or curl forward into the room **do not operate appliance.** Check for an open flue and adequate combustion air into the room. A damper clamp must be installed on the firebox damper to maintain an open flue vent condition.
4. Young children must be carefully supervised when they are in the same room as the gas log while in operation. Do not place stockings, clothing or any flammable material above or near the fireplace.
5. Do not substitute or use materials other than those supplied for use with the log set.

DO NOT OPERATE THIS GAS LOG SET WITH GLASS DOORS CLOSED.

- **Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies.**
- **Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.**
- **Young children should be carefully supervised when they are in the same room as the appliance.**
- **Clothing or other flammable material should not be placed on or near the appliance.**
- **Do not place trash or other articles on the log set during operation.**
- **During manufacturing, fabricating and shipping, various components of this appliance are treated with certain oils, films or bonding agents. These bonding agents are not harmful but may produce annoying smoke and smells as they are burned off during initial operation of the appliance. This is a normal temporary occurrence. A window should be opened during the initial bake out period.**
- **Keep burner and control compartment clean.**
- **WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner.**
- **WARNING: Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.**
- **WARNING: Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this appliance.**
- **Installation and repair should be done by a QUALIFIED SERVICE PERSON. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.**
- **DO NOT put anything around the fireplace that will obstruct the flow of ventilation air.**
- **DO keep the appliance area clear and free from combustible material, gasoline and other flammable vapors and liquids.**
- **A yearly examination and cleaning of the venting system of the solid-fuel burning fireplace must be performed by a qualified agency.**
- **DO make a periodic visual check of pilot and burners. Clean and replace damaged parts.**
- **DO NOT use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.**

IMPORTANT SAFETY INFORMATION

WARNING: Follow all gas leak check procedures in this manual, prior to operation.

WARNING: Fuels used in gas or oil-fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm. This warning is issued pursuant to California Health & Safety Code Sec. 25249.6.

While this appliance is not in use, the gas must be turned off at the gas supply.

DO NOT ATTEMPT TO DISCONNECT THE GAS OR ANY GAS FITTING WHILE THIS APPLIANCE IS IN OPERATION.

NEVER leave the decorative gas log set unattended while in operation.

NEVER allow children to operate this decorative gas log set.

NEVER place hands or fingers on the front edge of this decorative gas log set.

NEVER use liquid propane gas in a natural gas unit, or natural gas in a liquid propane unit.

DO NOT use solid-fuel or lighter fluid in any decorative gas log set.

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.

During manufacturing, fabrication, and shipping, various components of this appliance are treated with certain oils, films, or bonding agents. These chemicals ARE NOT harmful, but may produce annoying smoke and smells, as they are burned off, during the initial operation of the appliance. This may possibly cause headaches, and eye or lung irritation. This is a normal and temporary occurrence. The initial break-in period should last three to four hours. During this period, provide maximum ventilation by opening a window or door, to allow odors to dissipate. Any odor remaining after this initial break-in period, will be slight and will disappear with continued use.

PROPER CLEARANCES FROM COMBUSTIBLE CONSTRUCTION AND MATERIALS MUST BE MAINTAINED FROM ALL SIDES, TOP, AND BOTTOM OF THIS APPLIANCE.

THIS APPLIANCE SHOULD NEVER BE PLACED NEAR ANY COMBUSTIBLE SURFACE.

THIS APPLIANCE SHOULD NEVER BE PLACED UNDER ANY COMBUSTIBLE CONSTRUCTION OR MATERIALS.

NEVER PLACE ANY COMBUSTIBLE MATERIAL WITHIN TWENTY-FOUR INCHES (24")FROM THE FRONT OF THE FIREPLACE ENCLOSURE.

WARNING

The damper clamp must be installed in a manner which will maintain the minimum permanent damper vent opening at all times. **See Figure 1**.

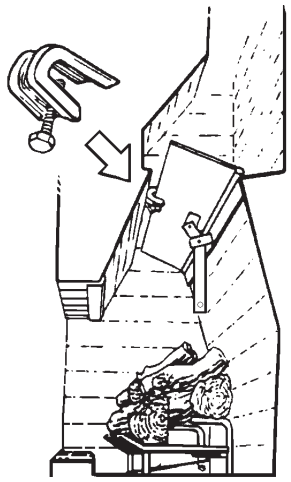


Figure 1

WARNING

The State of Massachusetts requires that the chimney flue damper, when used with decorative gas log sets, be welded open or completely removed. In the Commonwealth of Massachusetts, this appliance must be installed by a licensed plumber or gasfitter.

WARNING

Improper installation, adjustment, alteration, service or maintenance, can cause property damage, personal injury or loss of life. Refer to the owner's information manual, provided with this appliance. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

SAFETY INFORMATION FOR USERS OF LP-GAS

Propane (LP-Gas) is a flammable gas which can cause fires and explosions. In its natural state, propane is odorless and colorless. You may not know all the following safety precautions which can protect both you and your family from an accident. Read them carefully now, then review them point by point with the members of your household. Someday when there may not be a minute to lose, everyone's safety will depend on knowing exactly what to do. If, after reading the following information, you feel you still need more information, please contact your gas supplier.

LP-GAS WARNING ODOR

If a gas leak happens, you should be able to smell the gas because of the odorant put in the LP-Gas.
That's your signal to go into immediate action!

- Do not operate electric switches, light matches, use your phone. Do not do anything that could ignite the gas.
- Get everyone out of the building, vehicle, trailer, or area. Do that IMMEDIATELY.
- Close all gas tank or cylinder supply valves.
- LP-Gas is heavier than air and may settle in low areas such as basements. When you have reason to suspect a gas leak, keep out of basements and other low areas. Stay out until firefighters declare them to be safe.
- Use your neighbor's phone and call a trained LP-Gas service person and the fire department. Even though you may not continue to smell gas, do not turn on the gas again. Do not re-enter the building, vehicle, trailer, or area.
- **Finally,** let the service man and firefighters check for escaped gas. Have them air out the area before you return. Properly trained LP-Gas service people should repair the leak, then check and relight the gas appliance for you.

NO ODOR DETECTED - ODOR FADE

Some people cannot smell well. Some people cannot smell the odor of the chemical put into the gas. You must find out if you can smell the odorant in propane. Smoking can decrease your ability to smell. Being around an odor for a time can affect your sensitivity or ability to detect that odor. Sometimes other odors in the area mask the gas odor. People may not smell the gas odor or their minds are on something else. Thinking about smelling a gas odor can make it easier to smell.

The odorant in LP-gas is colorless, and it can fade under some circumstances. For example, if there is an underground leak, the movement of the gas through soil can filter the odorant. Odorants in LP-Gas also are subject to oxidation. This fading can occur if there is rust inside the storage tank or in iron gas pipes.

The odorant in escaped gas can adsorb or absorb onto or into walls, masonry and other materials and fabrics in a room. That will take some of the odorant out of the gas, reducing its odor intensity.

LP-Gas may stratify in a closed area, and the odor intensity could vary at different levels. Since it is heavier than air, there may be more odor at lower levels. Always be sensitive to the slightest gas odor. If you detect any odor, treat it as a serious leak. Immediately go into action as instructed earlier.

SOME POINTS TO REMEMBER

- **Learn to recognize the odor of LP-gas.** Your local LP-Gas Dealer can give you a "Scratch and Sniff" pamphlet. Use it to find out what the propane odor smells like. If you suspect that your LP-Gas has a weak or abnormal odor, call your LP-Gas Dealer.
- If you are not qualified, do not light pilot lights, perform service, or make adjustments to appliances on the LP-Gas system. If you are qualified, consciously think about the odor of LP-Gas prior to and while lighting pilot lights or performing service or making adjustments.
- Sometimes a basement or a closed-up house has a musty smell that can cover up the LP-Gas odor. Do not try to light pilot lights, perform service, or make adjustments in an area where the conditions are such that you may not detect the odor if there has been a leak of LP-Gas.
- Odor fade, due to oxidation by rust or adsorption on walls of new cylinders and tanks, is possible. Therefore, people should be particularly alert and careful when new tanks or cylinders are placed in service. Odor fade can occur in new tanks, or reinstalled old tanks, if they are filled and allowed to set too long before refilling. Cylinders and tanks which have been out of service for a time may develop internal rust which will cause odor fade. If such conditions are suspected to exist, a periodic sniff test of the gas is advisable. **If you have any question about the gas odor, call your LP-GAS dealer. A periodic sniff test of the LP-GAS is a good safety measure under any condition.**
- If, at any time, you do not smell the LP-Gas odorant and you think you should, assume you have a leak. Then take the same immediate action recommended above for the occasion when you do detect the odorized LP-Gas.
- If you experience a complete "gas out," (the container is under no vapor pressure), turn the tank valve off immediately. If the container valve is left on, the container may draw in some air through openings such as pilot light orifices. If this occurs, some new internal rusting could occur. If the valve is left open, then treat the container as a new tank. Always be sure your container is under vapor pressure by turning it off at the container before it goes completely empty or having it refilled before it is completely empty.

INTRODUCTION

Introduction
Always consult your local Building Department regarding regulations, codes or ordinances which apply to the installation of a vented decorative gas log set in a solid-fuel burning fireplace. This appliance is only for use with the type of gas indicated on the rating plate.

Instructions to Installer
1. Installer must leave instruction manual with owner after installation.
2. Installer must have owner fill out and mail warranty card supplied with the fireplace.
3. Installer should show owner how to start and operate the fireplace.

WARNING:
ANY CHANGE TO THIS APPLIANCE OR ITS CONTROLS CAN BE DANGEROUS. **Improper installation or use of the appliance can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.**

General Information

Any alteration of the original design, installed other than as shown in these instructions or use with a type of gas not shown on the rating plate is the responsibility of the person and company making the change.

Important
All correspondence should refer to complete Model No., Serial No. and type of gas.

Notice: During initial use of the ceramic logs and branches you will detect an odor as the ceramic logs and branches are cured.

SPECIFICATIONS

MINIMUM FIREPLACE DIMENSIONS MASONRY BUILT FIREPLACES Chimney Height Minimum of 6 Feet				
LOG SET SIZE	FRONT WIDTH IN INCHES*	DEPTH IN INCHES	HEIGHT IN INCHES	MINIMUM VENT IN SQ. INCHES
18”	28	16	18	49
24”	30	16	18	71
30”	36	18	18	71
36”	42	18	18	71
MINIMUM FIREPLACE DIMENSIONS FACTORY BUILT FIREPLACES Chimney Height Minimum of 10 Feet				
LOG SET SIZE	FRONT WIDTH IN INCHES*	DEPTH IN INCHES	HEIGHT IN INCHES	MINIMUM VENT IN SQ. INCHES
18”	28	16	18	49
24”	30	16	18	71
30”	36	18	18	71
36”	42	18	18	71

***Important:** When adding a valve kit to the burner, 8” needs to be added to the front width dimension.

Note: Natural gas match throw sets may be used in some areas. Check your local codes for this configuration.

WARNING
DO NOT use sand in Liquid Propane Hearth Kits. Use the Vermiculite, provided with the Liquid Propane Change Kit.

HEARTH KIT SIZE	RATED PRESSURE (W.C.)	MAX GAS PRESSURE (W.C.)	ORIFICE SIZE	BTU/HR INLET
18”	7.0	10.5”	#23	75,000
24”	7.0	10.5”	#13	90,000
30”	7.0	10.5”	#13	90,000
36”	7.0	10.5”	#13	90,000

HIGH ALTITUDE DE-RATE
In the U.S.A., input BTU shall be de-rated at 4% (1 orifice size) per 1000 feet for altitudes above 2000 feet. In Canada, input BTU shall be de-rated 10% (2 orifice sizes) at altitudes from 2000 feet to 4500 feet.

ACCESSORIES	
FGAFLMF	Valve Kit
FGRCAFLMFV	Motorized Hi/Lo Remote
FGRCAFLMF	ON/OFF Remote
FGLMFWWS	Wireless Wall Switch
FGAFVKSPMH/L	IP Pilot HI/LO Remote
FGAFVKSP	IP Pilot ON/OFF Remote
FGAFLFP18	Gas Conversion Kit - 18”
FGAFLFP24	Gas Conversion Kit - 24”
FGAFLFP30	Gas Conversion Kit - 30”

INSTALLATION

Note: Installation can be made easier if two or more people cooperate in locating and installing the unit.

LOCATING THE UNIT

This appliance must be installed only in a solid-fuel burning fireplace, which contains a working flue, and is constructed of non-combustible materials.

IMPORTANT
Before installing this appliance, have the fireplace and chimney professionally cleaned to remove any ashes, soot, creosote, or other obstructions. Perform this cleaning annually after installation.

IMPORTANT
For units with valve applications, complete pilot placement and gas train assembly before you place the unit into the fireplace.

IMPORTANT
Seal any fresh air vents or ash clean-out doors located on the floor or wall of the fireplace. If this is not performed, drafting may cause pilot outage or sooting. Use a heat-resistant sealant. DO NOT seal the chimney flue damper.

WARNING

Gas supply system must be installed in accordance with the U.S. National Fuel Gas Code.
This appliance and its individual shut off valve must be disconnected from the gas supply piping system during any system pressure test in excess of 1/2 PSI (3.5 KPA).
Use a system manual shut off valve to shut off the gas supply to this gas appliance before continuing with installation procedures.

WARNING

WHEN INSTALLING THE APPLIANCE, DO NOT OBSTRUCT THE FLOW OF COMBUSTION AND VENTILATION AIR.

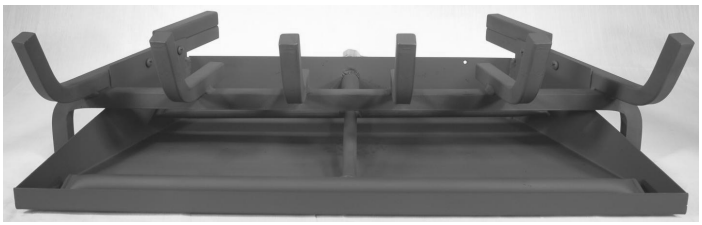


Figure 2 - Fiamma Standard Burner Pan, Match Throw

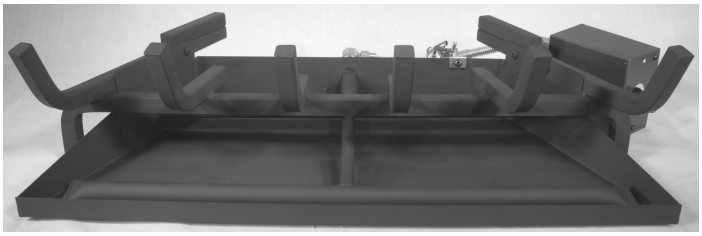


Figure 3 - Fiamma Standard Burner Pan with Gas Control Valve

SET UP AND ASSEMBLY

Your Fiamma Decorative Gas Log Hearth Kit comes ready for gas assembly connection particular for use in your area.

IMPORTANT
BEFORE YOU BEGIN - Audit the gas pressure at the fireplace stub to insure proper minimum gas pressure (see the specifications beginning on page 6 of this manual).

IMPORTANT
BEFORE YOU BEGIN - Insure that the firebox meets the minimum specifications of the appliance (see the specifications beginning on page 6 of this manual).

IMPORTANT
This appliance when first installed may produce unpleasant odors; these will gradually diminish.

IMPORTANT
Decorative Gas Log Sets are shipped with the appropriate gas connections for each type of gas (i.e. Natural Gas or Liquid Propane). If you have purchased an inappropriate unit for your application, contact your retailer, installer or the Customer Service Center.

Tools Needed

2 Adjustable Wrench (at least one of which has a range of 3/4" for gas fittings)
2 Adjustable Pipe Wrenches
1 3/8" Nut Driver or Socket (for damper clamp)

BEGINNING INSTALLATION

1. Remove all contents from the burner shipping container (Box One).
2. Check the contents of the shipping container against the shipping and packing list or the parts list in this manual. Report any missing or damaged parts to your retailer.
3. Remove any and all protective wrapping from the appliance.
4. **TURN OFF THE GAS SUPPLY SYSTEM.**
5. Place the fireplace damper in the fully open position and install the damper clamp over the lip of the damper **(the damper must be in a fully open position any time that this appliance is in operation)**. Using a 3/8" nut driver or socket and turning in a clockwise direction, tighten the damper clamp bolt until the clamp is secure. The damper clamp must be in place to maintain the minimum permanent vent opening. See the chart "Minimum Fireplace Dimensions" on page 6 for correct venting.
   Notice: The State of Massachusetts requires that the chimney flue damper, when used with decorative gas log sets, be welded open or completely removed.
6. Using two adjustable pipe wrenches (one wrench on the gas stub, and one wrench on the fitting), remove the existing cap or gas jet assembly from the gas stub in the fireplace by turning the wrench on the gas cap in a counterclockwise direction.
7. Clean the pipe threads on the gas stub using either a wire brush or steel wool. Apply Teflon tape or pipe dope to the steel fittings before making any connection.
   Notice: All gas connections (except for brass to brass) require Teflon tape or pipe dope.

INSTALLATION

FOR MATCH THROW INSTALLATIONS

1. Place the Fiamma Burner Pan into the fireplace (unit is packaged as a match-throw, dual burner assembly; valve,pilot and gas train must be assembled). The unit should be centered from both side to side and front to back in the fireplace. The unit is shipped ready for rear gas connection only. See Figure 2.
2. Bend a 3/8” gas line with two 3/8” brass, female flare fittings (included on some models) to facilitate the gas connection between the burner and the gas stub.

CAUTION: Gas lines are easily kinked if bent too sharply.

3. Using an adjustable wrench, and turning in a clockwise direction, attach a 1/2” female flare x 3/8” male flare brass reducer fitting (included on some models) to the gas stub.
4. Using two adjustable wrenches, and turning in a clockwise directions, attach one end of the gas line to the brass reducer fitting installed in the previous step (one wrench on the brass gas line fitting, and one wrench on the brass reducer fitting).
5. Using two adjustable wrenches, and turning in a clockwise direction, attach the other end of the gas line to the brass fitting on the burner (one wrench on the gas line fitting, and one wrench on the brass fitting on the burner).

CAUTION: Make sure all gas connections are snug but DO NOT over tighten!

6. **CHECK FOR LEAKS!** Apply soapy water to each connection and watch for bubbles. If bubbles are seen, turn off the gas supply, retighten the connections and **CHECK AGAIN. DO NOT** use a lighted match or other source of ignition to check for leaks. Repeat this procedure until you are sure that there are no leaks. Proceed to “FINAL SET UP on page 12.

FOR VALVE/PILOT INSTALLATIONS

It will be easier to assemble the burner/gas train outside of the fireplace and then place the entire assembly into the fireplace for final gas hook-up. Follow the instructions that are included with the valve/pilot kit and/or the instructions below.

Figure 4 - Valve/Pilot Assembly Parts

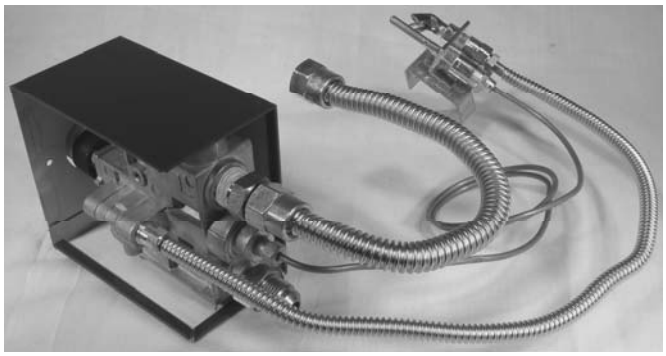


Figure 5 - Rear View Standard Assembly

STANDARD PAN - VALVE/PILOT ASSEMBLY

1. Assemble the valve/pilot kit. See Figures 4 to 5.
2. Noting the distance between the grate tines, place the pilot mounting bracket on the right, rear of the burner pan, 2-1/4” from the right-hand side of the burner pan and 3/16” down from the top edge. See Figure 6.
3. Mark the location of the pilot bracket mounting hole.
4. Drill a 1/8” hole at this location. Or secure the bracket with a self-tapping sheet metal screw. See Figures 6 and 7.
5. Mount the pilot. See Figure 8.
6. Attach the 3/8” stainless steel flex line from the valve to the burner. See Figure 8.

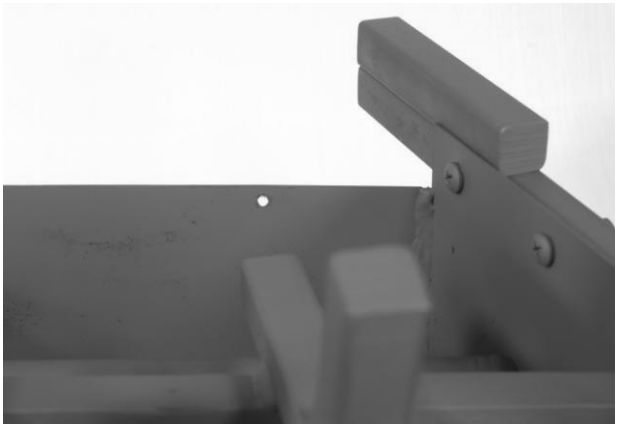


Figure 6

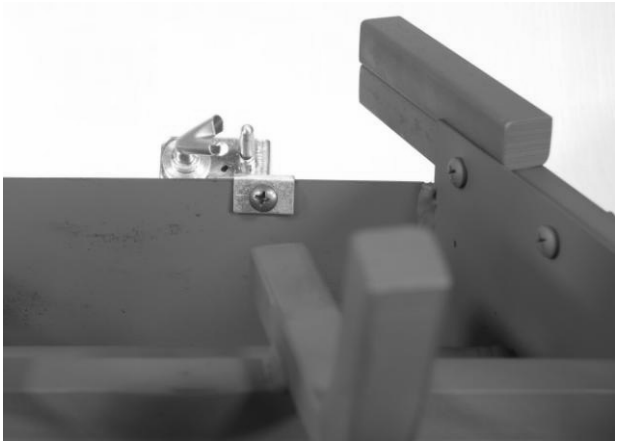


Figure 7

INSTALLATION

Figure 8

INSTALLING THE APPLIANCE INTO A FIREPLACE

1. Place the Fiamma Burner Pan into the fireplace (unit is packaged as a match-throw, dual burner assembly; valve,pilot and gas train must be assembled). The unit should be centered from both side to side and front to back in the fireplace. The unit is shipped ready for rear gas connection only. See Figure 2.
2. Bend a 3/8" gas line with two 3/8" brass, female flare fittings (included on some models) to facilitate the gas connection between the burner and the gas stub.

CAUTION: Gas lines are easily kinked if bent too sharply.

3. Using an adjustable wrench, and turning in a clockwise direction, attach a 1/2" female flare x 3/8" male flare brass reducer fitting (included on some models) to the gas stub.
4. Using two adjustable wrenches, and turning in a clockwise directions, attach one end of the gas line to the brass reducer fitting installed in the previous step (one wrench on the brass gas line fitting, and one wrench on the brass reducer fitting).
5. Using two adjustable wrenches, and turning in a clockwise direction, attach the other end of the gas line to the brass fitting on the burner (one wrench on the gas line fitting, and one wrench on the brass fitting on the burner).

CAUTION: Make sure all gas connections are snug but DO NOT over tighten!

STOP! IT IS OUR RECOMMENDATION TO LIGHT THE PILOT AND TEST THE IGNITION BEFORE ATTEMPTING TO SET UP THE LOGS.

FOR UNITS WITH GAS CONTROL VALVES: SEE "UNITS WITH REMOTE SYSTEMS" SECTION ON PAGE 9 AND "LIGHTING INSTRUCTIONS WITH SAFETY PILOT ON PAGE 14 BEFORE CONTINUING ON WITH THE INSTRUCTIONS

FOR MATCH THROW UNITS: THIS IS NOT NECESSARY. ONCE YOU HAVE COMPLETED THE STEPS IN THIS SECTION, CONTINUE ON TO "FINAL SET UP" ON PAGE 12.

6. **CHECK FOR LEAKS!** Apply soapy water to each connection and watch for bubbles. If bubbles are seen, turn off the gas supply, retighten the connections and **CHECK AGAIN. DO NOT** use a lighted match or other source of ignition to check for leaks. Repeat this procedure until you are sure that there are no leaks. Proceed to "FINAL SET UP on page 12.

WARNING

DO NOT use sand in Liquid Propane Hearth Kits. Use the Vermiculite, provided with the Liquid Propane Change Kit.

FOR UNITS WITH REMOTE SYSTEMS

All burner systems are capable of operating with a latching solenoid remote control system. See the instructions packaged with the remote system that you have purchased for detailed installation and operational characteristics. The following instructions are a general guide for installation only.

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

These Vented Burner Systems use:
The American Flame AF-1000 Series Valve (AF-1010 shown here with remote solenoid shown separately in diagram). All systems use a safety pilot with a thermocouple. See Figures 4-5 & 8.

CONNECTING THE RECEIVER TO THE VALVE
Notice: For extended, remote applications, extension wire (not provided) will be necessary for your distance run.

1. The wire harness should already be installed to the terminal bock on the rear of the remote receiver.

FOR HANDHELD TRANSMITTER REMOTE RECEIVERS, SEE FIGURES 11 - 13.

FOR WALL SWITCH TRANSMITTER REMOTE RECEIVERS, SEE FIGURES 14 - 16.

WIRING SCHEMES FOR THE TERMINAL BLOCKS AND OPERATIONS CHARACTERISTICS VARY BETWEEN THE TWO SYSTEMS.

2. Connect the BLACK 18 gauge wire with the 1/4" female terminal from the receiver to the BLACK wire with the 1/4" male terminal from the valve solenoid.
3. Connect the RED 18 gauge wire with the 1/4" female terminal from the receiver to the RED wire with the 1/4" male terminal from the valve solenoid.
4. After receiver wires are connected to the valve solenoid wires, make sure the receiver shield is located over the receiver and then locate the receiver in an area that will not exceed 130°F (preferably outside the firebox, on the fireplace hearth).

IMPORTANT
Operation of these controls is dependent upon which wire is attached to which terminal. If operation does not correspond to operating buttons on the transmitter, reverse the wire installation at the receiver or at the transmitter. See Figures 12, 13, 15, & 16.

Notice: Up to 6.3 VDC of power is provided at the receiver terminal.

INSTALLATION

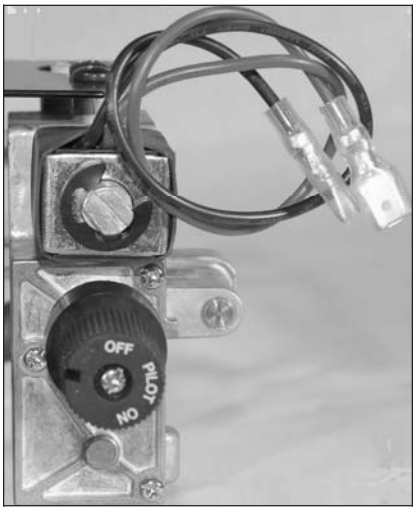


Figure 9

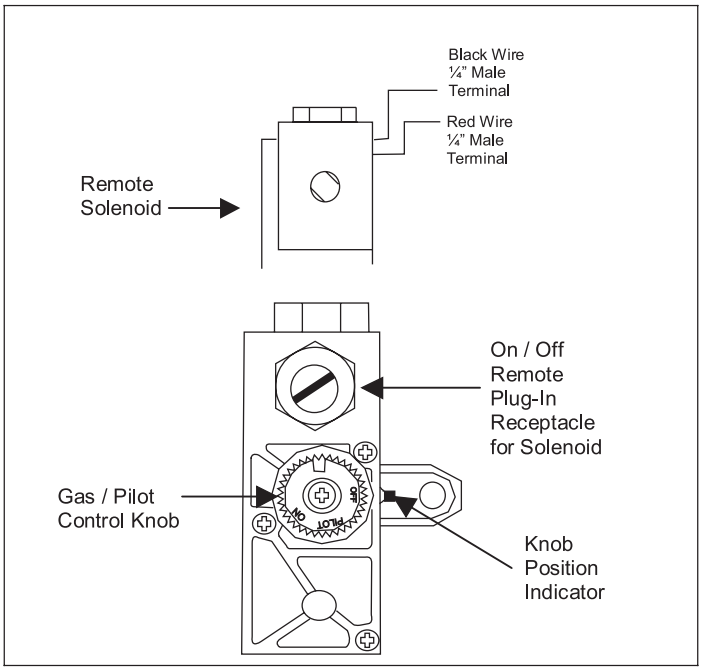


Figure 10

HAND HELD REMOTE RECEIVER

See the instructions packaged with the remote system for directions on programming the coding switches on both transmitter and receiver.

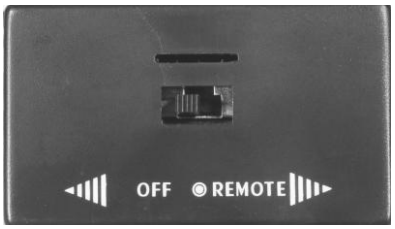


Figure 11 - Hand Held Remote Receiver, Front View

MODEL NO : SKY-4001RX
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION OF THIS DEVICE IS SUBJECT TO THE FOLLOWING CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,
INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
SKYTECH II, INC.
MADE IN CHINA
FC

Figure 12 - Hand Held Remote Receiver, Rear View

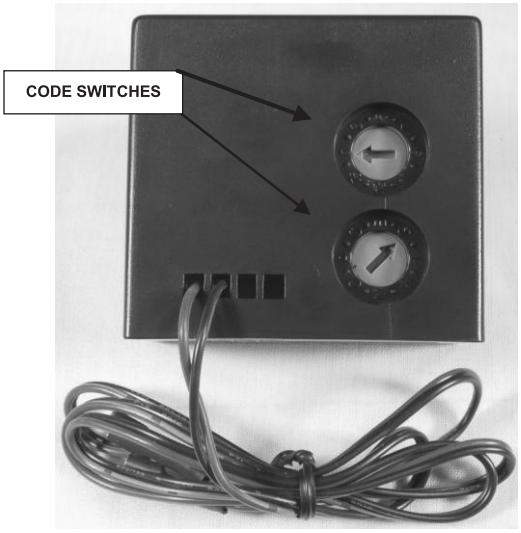


Figure 13 - Hand Head Remote Receiver, Top View

IMPORTANT
TERMINAL BLOCK CONNECTIONS: FOR HAND HELD TRANSMITTER REMOTE RECEIVERS, USE THE OUTSIDE TERMINAL BLOCK RECEPTACLES. SEE FIGURES 12 & 13.

INSTALLATION

WALL MOUNT REMOTE RECEIVER

See the instructions packaged with the remote system for directions on programming ("Learning") both transmitter and receiver.

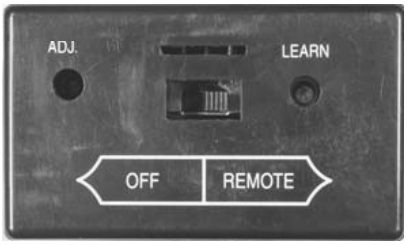


Figure 14 - Wall Mount & Variable Flame Remote Receiver, Front View

Figure 15 - Wall Mount & Variable Flame Remote Receiver, Rear View

Figure 16 - Wall Mount & Variable Flame Remote Receiver, Top View

IMPORTANT
TERMINAL BLOCK CONNECTIONS: FOR HAND HELD TRANSMITTER REMOTE RECEIVERS, USE THE INSIDE TERMINAL BLOCK RECEPTACLES. SEE FIGURES 15 & 16.

FINAL SET UP

WARNING:

Failure to position the parts in accordance with all included pictures, diagrams and drawings, or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

IMPORTANT

Cover the pilot and valve assembly, and for Liquid Propane units, the air mixer at the side of the burner to protect it before installing sand and glowing embers.

1. Pour the provided sand (Note: use vermiculite for Liquid Propane appliances) over the entire burner, filling the burner pan. The sand (vermiculite) should follow the slope of the burner pan, covering the burner completely. See Figure 17.

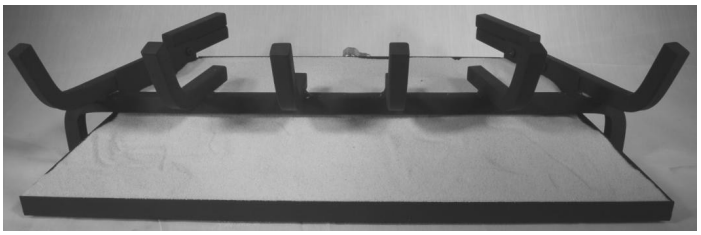


Figure 17

2. Spread the Glowing Embers over the bottom portion of the burner. See Figure 18.

Figure 18

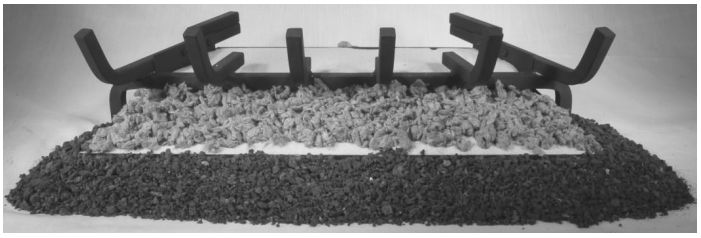


Figure 19

WARNING:

Apply loose material (embers and lava rock [cinders]) per instruction manual. DO NOT apply extra material not supplied with this appliance. All previously applied loose material (embers) must be removed prior to reapplication.

CAUTION:

DO NOT place glowing embers, sand vermiculite or lava rock (cinders) in the area of the safety pilot assembly.

STOP!

Refer to the log set up instructions packaged with your Decorative Gas Logs (Box Two).

3. Remove all contents from the Decorative Gas Log shipping container (Box Two).
4. Check the contents of the shipping container against the shipping and packing list or the parts list in this manual. Report any missing or damaged parts to your retailer.
5. Remove any and all protective wrapping from the gas logs.
6. Arrange the decorative gas logs on the grate.
7. Place the Lava Rock (cinders) around the Grate/Burner Assembly. See Figure 19.
8. DO NOT pack cinders around valve. The valve will overheat! You must allow air flow around the valve.
9. When you have completed setting up the logs, proceed to the operation section on page 10 for Match Throw Units, and page 11 for units with gas control valves.

LIGHTING INSTRUCTIONS - MATCH THROW UNITS

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

A. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

B. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance.

LIGHTING INSTRUCTIONS

WARNING

- **Any glass doors shall be opened when the appliance is in operation.**
- **A fireplace screen must be in place when the appliance is operating and, unless other provisions for combustion are provided, the screen shall have an opening(s) for introduction of combustion air.**

Natural Gas Match Throw Units can be lit by long hearth match, hand fire starter, or book match clip extender inserted near the center of the burner system.

1. STOP! Read the safety information above.
2. Read all warnings and safety information in this manual.

WARNING
BE SURE THAT THE CHIMNEY DAMPER IS FULLY OPEN.

3. Make sure that the manual shut-off valve next to the fireplace is in the OFF position.
4. Wait five minutes to clear out any gas. If you smell gas, STOP! Follow the safety instructions "WHAT TO DO IF YOU SMELL GAS" above. If you do not smell gas, continue with the following instructions.
5. Place a burning long hearth match or hand fire starter on top of the sand near the center of the burner system.
6. Slowly turn on the gas at the manual shut-off valve beside the fireplace in a counter-clockwise direction. The gas should ignite within five seconds. Adjust the burner flame by opening or closing the manual gas shut-off valve.

WARNING
If ignition does not take place, TURN THE GAS OFF at the manual valve and wait five minutes before attempting to relight the appliance. If after repeated attempts the appliance does not ignite, contact your installer or the Empire Comfort Systems Customer Service Center.

TO TURN OFF GAS TO APPLIANCE

1. Turn the gas at the manual shut-off valve beside the fireplace in a clockwise direction until the gas is off.

LIGHTING INSTRUCTIONS - SAFETY PILOT UNITS

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

WARNING

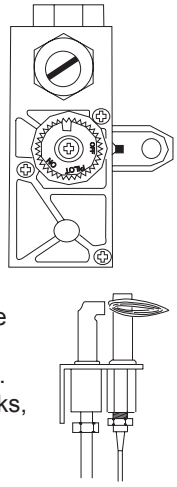
- **Any glass doors shall be opened when the appliance is in operation.**
- **A fireplace screen must be in place when the appliance is operating and, unless other provisions for combustion are provided, the screen shall have an opening(s) for introduction of combustion air.**

1. STOP! Read the safety information above.
2. Read all warnings and safety information in this manual.

WARNING

BE SURE THAT THE CHIMNEY DAMPER IS FULLY OPEN.

3. Push in the gas control knob slightly and turn it in a clockwise direction to the OFF position. DO NOT FORCE! NEVER USE ANY TOOL TO ROTATE THE GAS CONTROL KNOB! If gas control knob will not rotate, contact your installer or the Empire Comfort Systems Service Center.
4. Slowly turn on the gas at the manual shut-off valve beside the fireplace.
5. STOP! WAIT FIVE MINUTES!
6. If you smell gas, STOP!
7. Turn off the gas at the manual shut-off valve and recheck all gas connections for leaks. Do not continue until all leaks are corrected. Once you are assured that there are no leaks, proceed with the following instructions.



8. Locate the pilot. For Standard units, the pilot is located at the right, rear center of the unit. For See-Thru units, the pilot is located on the bracket above the burner inlet.
9. While holding a burning long hearth match or hand fire starter near the pilot head, depress the gas control knob all the way down and turn the knob in a counterclockwise direction to the pilot position. Continue to hold the gas control knob down for approximately one minute after the pilot is lit.
10. Pilot should remain lit and control knob should pop back out when released. If not, repeat the previous steps. If pilot ignition does not take place, contact your installer or the Empire Comfort Systems Customer Service Center.
11. To manually light the burner system, gently press and turn the gas control knob in a counter-clockwise direction to the "FULL ON" position. Gas should ignite within approximately five seconds. Adjust the burner flame by opening or closing the manual gas shut-off valve.

TO TURN OFF GAS TO APPLIANCE

1. Gently press and turn the gas control knob in a clockwise direction to the "FULL OFF" position.

OPERATION

Units with a Gas Control Valve

FOR YOUR SAFETY READ BEFORE LIGHTING

Figure 20 - Fiamma Burner Review Standard Pan with Valve

WARNING
Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and any gas control that has been under water.

All units with gas control valves must be lit by a Safety Pilot. For standard units, the pilot is located at the right, rear, center of the unit.

Follow these instructions exactly when lighting the appliance. BEFORE LIGHTING, smell around the appliance area for gas. Be sure to smell next to the floor, as L.P. gas is heavier than air and will settle to the floor. Use only your hand to rotate the gas control knob. Never use tools. If the knob will not turn by hand, do not try to repair it; call a qualified service technician or installer. Force or attempted repair may result in a fire or explosion.

WARNING
All gas burning appliances produce smoke and carbon monoxide gas during operation. These fumes can be harmful if the appliance is used in any other than a fully vented fireplace.

WARNING
A fireplace screen must be in place when this appliance is in operation. Unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.

WARNING
When this decorative gas appliance is used in a fireplace equipped with a combustion air kit and glass doors, the glass doors should remain open during log set operation. This will maximize the radiant heat provided to the surrounding area, and minimize overheating of any valve installation. The glass doors may be closed when the log set is not in use.

Figure 21 - Pilot Assembly, Standard Pan

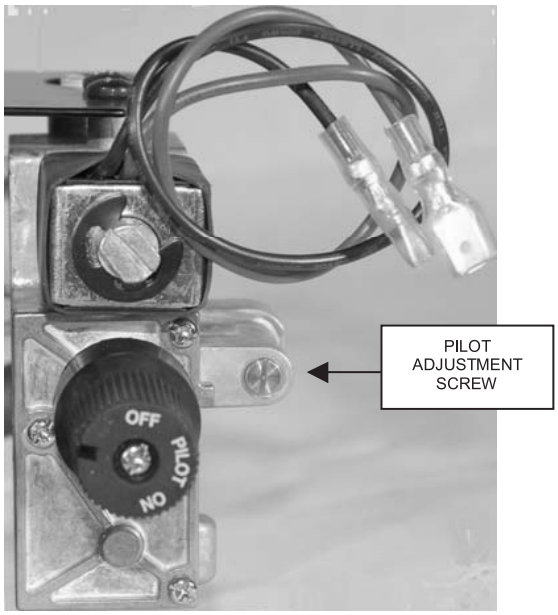


Figure 22

Pilot Flame Adjustment

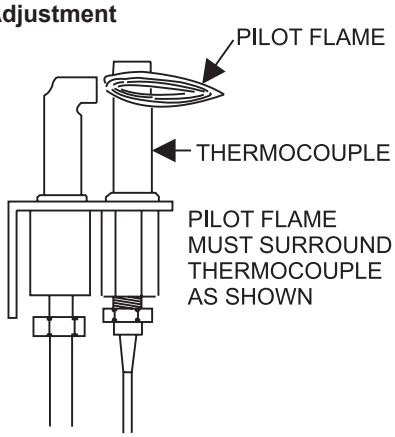


Figure 23

The pilot flame should be a soft blue in color and should surround the last 1/2” of the thermocouple tip. The pilot adjustment screw is located on the valve, just to the right of the control knob. See Figure 22.

If the pilot flame must be adjusted, use a standard slotted screwdriver to turn the screw clockwise to reduce the flame, or counterclockwise to increase the flame. See Figure 22.

Curing Refractory Gas Logs

IMPORTANT
The hard refractory gas logs provided with this decorative gas log set require curing the first time that they are put into operation. You must follow the instructions given for curing the logs to avoid cracking the logs with continued use.

After the initial lighting of the burner system, let the log set cool down. Then, relight and allow to burn for another 30 minutes.

MAINTENANCE & SERVICE

The Decorative Gas Log Set should be thoroughly inspected on a regular basis at least once a year by a qualified installer.
At the beginning of each season, the system should be checked as follows:

1. Check the chimney flue or vent pipe to make sure that the flue is drawing properly, and that any vent pipe connections are tight.
2. Check to see that there are no blockages at the chimney or vent termination.
3. Check for creosote and soot build-up in chimney and/or vents and clean if necessary.
4. Inspect the pilot and burners (if applicable).

The burner system has been adjusted for proper operation at the factory. No adjustment is necessary, other than altitude de-rate or pilot flame.

NEVER enlarge valve orifices or burner ports.

Sooting

Some sooting of your log set is normal, adding to the appearance of burned wood. If excessive sooting accumulates, clean the logs using either of the following options::

A. While the logs are burning and hot, spray the logs with clean water. The soot will lift off and burn off.
B. When the logs are cold, brush the soot off with a stiff brush. Do not use water or soot cleaners at the same time as a brush.

TROUBLESHOOTING

PROBLEM OBSERVED	POSSIBLE CAUSE	CORRECTIVE MEASURE
Gas odor during setup	Gas Leak	See “What to do if you smell gas” Pages 4 - 5. Check all gas connections
Gas odor before first ignition	Gas Leak	See “What to do if you smell gas” Pages 4 - 5. Check all gas connections
Pilot will not ignite, or will not stay lit	No gas to pilot	Make sure gas is on, in pilot position
	Thermocouple not hot	Depress valve knob for at least 1 minute
	Improper pilot flame adjustment	See Pilot Characteristics - adjust flame
	Loose connections on the thermocouple	Check gas connections
	Faulty pilot or thermocouple	Replace Safety Pilot
	Faulty valve	Replace Valve
Delayed ignition	Low gas pressure	Check gas supply pressure
	Clogged or dirty burner ports	Clean burner ports
	Blocked orifice	Check orifice opening
	Faulty valve	Replace valve
Burner does not light but pilot remains on	Low gas pressure	Check gas supply pressure
	Clogged or dirty burner ports	Clean burner ports
	Blocked orifice	Check orifice opening
	Faulty pilot or thermocouple	Replace safety pilot
	Faulty valve	Replace valve
Burner lights but does not stay lit while pilot remains on	Low gas pressure	Check gas supply pressure
	Faulty valve	Replace valve
	Faulty pilot or thermocouple	Replace Safety pilot
	Clogged or dirty burner ports	Clean burner ports
Burner & pilot light but will not stay on	Low gas pressure	Check gas supply pressure
	Not enough fresh air for pilot	Open door or window - ventilate
	Faulty valve	Replace valve
	Faulty pilot or thermocouple	Replace safety pilot
	Clogged or dirty burner ports	Clean burner ports
	Remote control overheating	Move away from flame
	Remote control batteries failing	Replace batteries
Incorrect burner flame	Incorrect gas supply or pressure	Check gas supply pressure
	Blocked orifice	Check orifice opening
	Clogged or dirty burner ports	Clean burner ports
	Faulty valve	Replace valve
	High altitude	Adjust orifice size for altitude
Backfire of burner	Blocked orifice	Check orifice opening
	Clogged or dirty burner ports	Clean burner ports
	Low gas pressure	Check gas supply pressure
Appliance produces unwanted odors	Vapors from paint, hair spray, glues, etc.	Ventilate room
	Initial burn-off of manufacturing chemicals	Ventilate room
Logs appear to smoke	Vapors from manufacturing chemicals	Ventilate room
	Logs curing	See “Curing of Refractory Logs”
Whistle noise from appliance	Air in gas line	Bleed lines
	Control knob not in fully open position	Open control knob to full position
	Spiral gas flex line	Replace gas feed line

PARTS LIST

INDEX NO	PART NO				DESCRIPTION
	BX18MTN	BX24MTN	BX30MTN	BX36MTN	
1	FG10084	FG10088	FG10090	FG10093	BURNER PAN WITH GRATE
2	FG10014	FG10014	FG10014	FG10014	EMBERS,ROCK WOOL, VERMICULITE MIX
3	FG10069	FG10069	FG10069	FG10069	SAND, BLACK, BAG
4	FG10086	FG10086	FG10086	FG10086	LAVA ROCK
5	FG10010	FG10010	FG10010	FG10010	DAMPER CLAMP
6	FG10020	FG10020	FG10020	FG10020	ORIFICE MT BRASS ELBOW .375 M X .375 M .50 20 TAP
7	FG10400	FG10292	FG10292	FG10292	ORIFICE
8	FG10065	FG10065	-	-	STAINLESS STEEL FLEX GAS LINE WITH CONNECTOR, 16”
8	-	-	FG10401	FG10401	STAINLESS STEEL FLEX GAS LINE WITH CONNECTOR, 22”
N/S	FG10025	FG10025	FG10025	FG10025	STUB FITTING BRASS ELBOW .50 NPT F X .375 M FLARE
N/S	FG10070	FG10070	FG10070	FG10070	.375 FLARE x .50 INCH FIP STEEL FITTING

N/S - NOT SHOWN

PARTS VIEW

NOTE: ITEMS NOT SHOWN TO SCALE
NOTE: BX18MTN-1 GRATE AND BURNER PAN SHOWN

MASTER PARTS DISTRIBUTOR LIST

To Order Parts Under Warranty, please contact your local Empire dealer. See the dealer locator at www.empirecomfort.com. To provide warranty service, your dealer will need your name and address, purchase date and serial number, and the nature of the problem with the unit.

To Order Parts After the Warranty Period, please contact your dealer or one of the Master Parts Distributors listed below. This list changes from time to time. For the current list, please click on the Master Parts button at www.empirecomfort.com. Please note: Master Parts Distributors are independent businesses that stock the most commonly ordered Original Equipment repair parts for Heaters, Grills, and Fireplaces manufactured by Empire Comfort Systems Inc.

Dey Distributing
1401 Willow Lake Boulevard
Vadnais Heights, MN 55101

Phone: 651-490-9191
Toll Free: 800-397-1339
Website: www.deydistributing.com
Parts: Heater, Hearth and Grills

Victor Division of F. W. Webb Company
200 Locust Street
Hartford, CT 06114

Phone: 860-722-2433
Toll Free: 800-243-9360
Fax: 860-293-0479
Toll Free Fax: 800-274-2004
Websites: www.fwwebb.com & www.victormfg.com
Parts: Heater, Hearth and Grills

East Coast Energy Products
10 East Route 36
West Long Branch, NJ 07764

Phone: 732-870-8809
Toll Free: 800-755-8809
Fax: 732-870-8811
Website: www.eastcoastenergy.com
Parts: Heater, Hearth and Grills

Able Distributors
2501 North Central Avenue
Chicago, IL 60639

Phone: 773-889-5555
Toll Free: 800-880-2253
Fax: 773-466-1118
Website: www. abledistributors.com
Parts: Heater

HOW TO ORDER REPAIR PARTS

Parts Not Under Warranty

Parts can be ordered through your Service Person, Dealer, or a Master Parts Distributor. See this page for the Master Parts Distributors list. For best results, the **service person or dealer** should order parts through the distributor. Parts can be shipped directly to the **service person/dealer**.

Warranty Parts

Warranty parts will need a proof of purchase and can be ordered by your Service Person or Dealer. Proof of purchase is **required** for warranty parts.

All parts listed in the Parts List have a Part Number. When ordering parts, first obtain the Model Number and Serial Number from the name plate on your equipment. Then determine the Part Number (**not** the Index Number) and the Description of each part from the following illustration and part list. Be sure to give all this information . . .

Appliance Model Number _____ Part Description _____

Appliance Serial Number _____ Part Number _____

Type of Gas (Propane or Natural) _____

Do not order bolts, screws, washers or nuts. They are standard hardware items and can be purchased at any local hardware store.

Shipments contingent upon strikes, fires and all causes beyond our control.

WARRANTY

Empire Comfort Systems Inc. warranties this hearth product to be free from defects at the time of purchase and for the periods specified below. Hearth products must be installed by a qualified technician and must be maintained and operated safely, in accordance with the instructions in the owner's manual. This warranty applies to the original purchaser only and is not transferable. All warranty repairs must be accomplished by a qualified gas appliance technician.

Limited Lifetime – Refractory Logs

Should any part fail because of defective workmanship or material during the normal life of this product, Empire will repair or replace at Empire's option.

Limited Five-Year Parts Warranty – Burners, Grates, Ceramic Fiber Logs

Should any part fail because of defective workmanship or material within five years from the date of purchase, Empire will repair or replace at Empire's option.

Limited Two-Year Parts Warranty – Valves

Should the valve fail because of defective workmanship or material within two years from the date of purchase, Empire will repair or replace at Empire's option.

Limited One-Year Parts Warranty – Remote Controls, Thermostats, Accessories, and Parts

Should any remote control, thermostat, accessory, or other part fail because of defective workmanship within one year from the date of purchase, Empire will repair or replace at Empire's option.

Duties of the Owner

The appliance must be installed by a qualified installer and operated in accordance with the instructions furnished with the appliance.

A bill of sale, cancelled check, or payment record should be kept to verify purchase date and establish warranty period.

Ready access to the appliance for service.

What Is Not Covered

Damages that might result from the use, misuse, or improper installation of this appliance.

Travel, diagnostic costs and freight charges on warranted parts to and from the factory.

Claims that do not involve defective workmanship or materials.

Unauthorized service or parts replacements.

Removal and reinstallation cost.

Inoperable due to improper or lack of maintenance.

How To Get Service

To make a claim under this warranty, please have your receipt available and contact your installing dealer. Provide the dealer with the model number, serial number, type of gas, and purchase verification. The installing dealer is responsible for providing service and will contact the factory to initiate any warranted parts replacements. Empire will make replacement parts available at the factory. Shipping expenses are not covered.

If, after contacting your Empire dealer, service received has not been satisfactory, contact: Consumer Relations Department, Empire Comfort Systems Inc., PO Box 529, Belleville, Illinois 62222, or send an e-mail to info@empirecomfort.com with "Consumer Relations" in the subject line.

Your Rights Under State Law

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

APPLIANCE SERVICE HISTORY

Date	Dealer Name	Service Technician Name	Service Performed/Notes

APPLIANCE SERVICE HISTORY

Date	Dealer Name	Service Technician Name	Service Performed/Notes

Empire Comfort Systems Inc.
918 Freeburg Ave. Belleville, IL 62220

If you have a general question about our products, please e-mail us at info@empirecomfort.com.
If you have a service or repair question, please contact your dealer.

www.empirecomfort.com

FG10239-1-0214